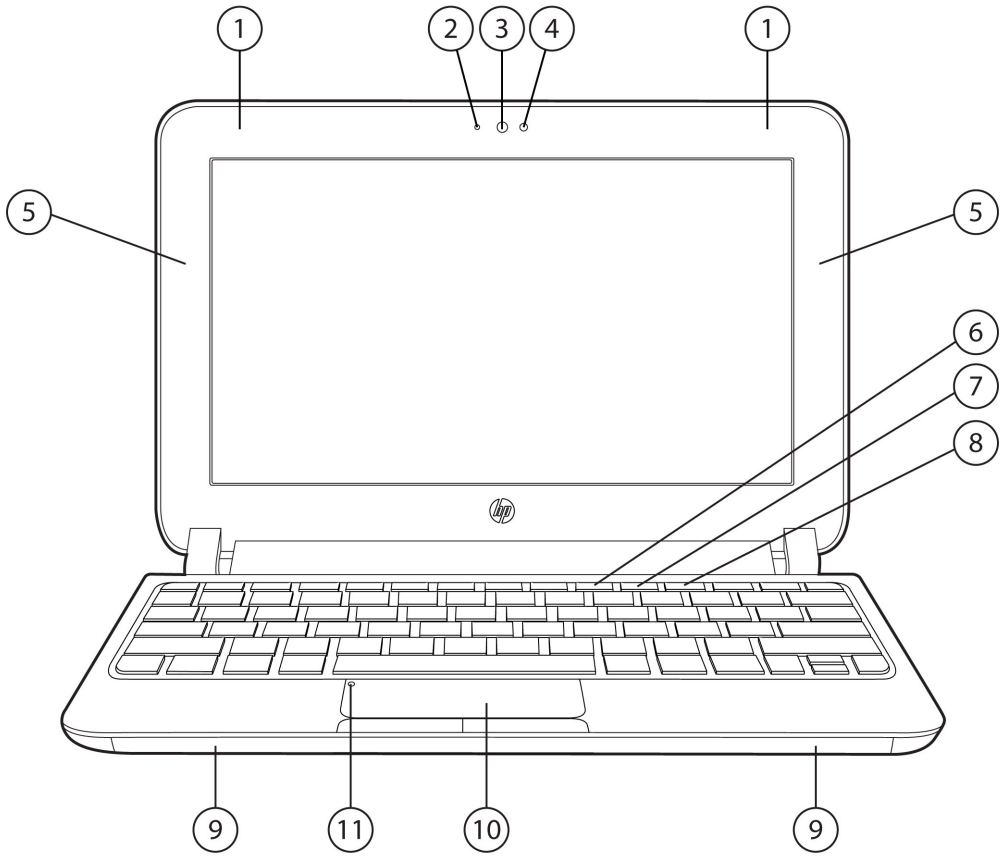
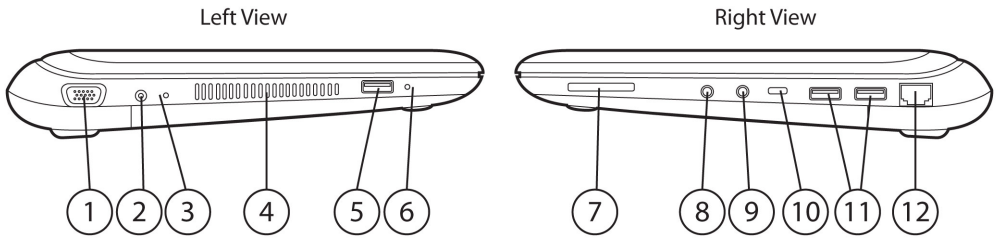
Overview



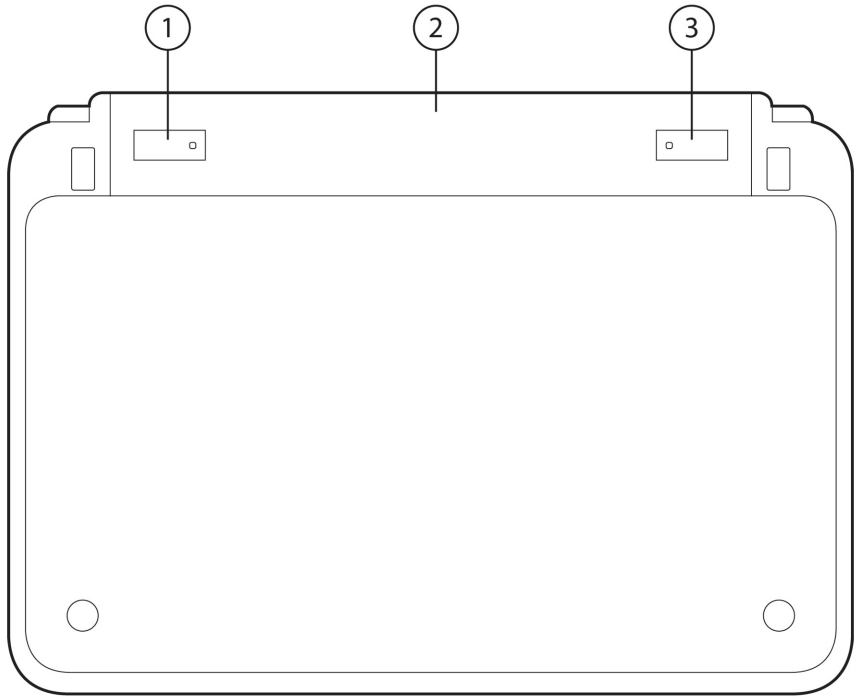
1. WWAN antennas (with WWAN option)
2. Integrated microphone
3. VGA Webcam
4. Webcam LED
5. WLAN antennas
6. Volume down function key
7. Volume up function key
8. Volume mute function key
9. Stereo speakers
10. Touchpad
11. Touchpad on/off button with LED



1. VGA/external monitor
2. Power connector
3. AC adapter light
4. Vent
7. Digital media slot
8. Audio out (headphone) jack
9. Audio-in (microphone) jack
10. Security lock slot

Overview

5. USB 2.0 port
6. Internal storage activity LED
11. (2) USB 2.0 ports
12. RJ-45/Ethernet



Bottom View

1. Battery release latch
2. Battery bay
3. Battery release latch

At A Glance

- Genuine Windows 7 versions or FreeDOS
- Ultra-portable, light-weight, modern black design starting at 2.78 lb (1.26 kg) and 0.89 in (22.8 mm) thin at front
- 93% full-size, spill-resistant QWERTY keyboard; touchpad with capacitive multi-touch gesture support
- 10.1-inch diagonal LED-backlit display available in WSVGA (1024 x 600) resolution
- Intel® NM10 Express chipset and Intel Atom™ processor
- Flexible wireless connectivity options:
  - Integrated HP Mobile Broadband (WWAN) Module
  - Integrated 802.11 a/b/g/n wireless and Bluetooth combo adapter
  - Integrated 802.11 b/g/n wireless and Bluetooth combo adapter
- Integrated VGA Webcam
- Enhanced durability with Hard Disk Drive accelerometer and spill-resistant keyboard
- Flexible battery solutions: 3-cell for lightest weight or 6-cell for longer battery life
- Up to 320 GB 5400 rpm hard drive
- Optional HP USB 2.0 Docking Station and HP External Mobile USB DVD/RW

Standard Features

Processors	Intel® Atom™ N2600 Processor (1.6 GHz, 1 MB L2 cache, 2 cores/4 threads, 667 MHz FSB) **NOTE:** Intel's numbering is not a measurement of higher performance. Processor speed denotes maximum performance mode; processor will run at lower speeds in battery optimization mode.	
Operating System	**Preinstalled**	Genuine Windows 7 Professional 32* Genuine Windows 7 Home Premium 32* Genuine Windows 7 Home Basic 32* Genuine Windows 7 Starter 32* FreeDOS
	* System may require upgraded and/or separately purchased hardware and/or a DVD drive to install the Windows 7 software and take full advantage of Windows 7 functionality. Not all features are available in all editions of Windows 7. See www.microsoft.com/windows/windows-7/ for details.	
Chipset	Intel NM10 Express Chipset	
Graphics	Intel Graphics Media Accelerator 3600	
Display	**Internal**	10.1-inch diagonal LED-backlit WSVGA widescreen display with 1024 x 600 resolution
	External	Up to 32-bit per pixel color depth **VGA port** supports resolutions up to 1680 x 1050 at 60 Hz, and lower resolutions at up to 100 Hz **NOTE:** Resolutions are dependent upon monitor capability, and resolution and color depth settings.
Memory	**Standard**	1 GB or 2 GB DDR3 1333 MHz SDRAM SODIMM* one SODIMM slot
	Maximum	Supports up to 2 GB maximum**
	* All memory modules operate at the maximum system supported speed of 667 MHz. ** Maximum memory is 1 GB with some configurations. **NOTE:** Due to the non-industry standard nature of some third-party memory modules, we recommend HP branded memory to ensure compatibility.	
Communications	Integrated Realtek RTL8105T Ethernet (10/100 NIC)	

Standard Features

Wireless Devices	Support for secure, integrated wireless LAN and wireless WAN options featuring support for the latest industry standards. Mobile Broadband (WWAN) requires a Windows operating system and is available in select countries as a factory configurable feature only. Wireless LAN is also available as a factory configurable feature only. Integrated Bluetooth is available in combination with select wireless LAN options.	
	Integrated Mobile Broadband (WWAN) options	Two 850/900/1800/1900/2100 MHz antennas integrated in the top of the display panel support current and future WWAN technologies. **NOTE:** Separately purchased mobile network operator service is required.
	HP hs2340 HSPA+ Mobile Broadband Module (Windows models only)	Integrated mobile broadband module that provides connectivity to both HSPA and HSPA+ (UMTS) networks. It also provides standalone, Internet and network assisted GPS functionality for various mapping applications and security applications such as Computrace Pro for HP ProtectTools.
	Integrated 802.11 wireless LAN options	Wi-Fi certified Cisco Compatible Extensions support Wired Equivalent Privacy (WEP) support up to 128-bit keys Wi-Fi Protected Access (WPA) and WPA2 support 802.1x authentication support, including EAP-TLS, EAP-TTLS, PEAP-GTC, PEAP-MSCHAPv2, and LEAP Advanced Encryption Standard (AES) support Dual antennas integrated in the display enclosure
	Ralink 3592BC8 802.11 a/b/g/n 2x2 WiFi and Bluetooth 3.0+HS Combo Adapter	Integrated support for 802.11 a, b, g, and n Up to 300 mbps data rate Bluetooth Specification 3.0 High Speed (HS)* and 2.1 compliant Works with a wide range of Bluetooth devices
	Broadcom 4313GN 802.11b/g/n 1x1 Wi-Fi and Bluetooth 3.0 + HS Combo Adapter	Integrated support for 802.11 b, g, and n Up to 72.2 mbps data rate Bluetooth 3.0 + High Speed (HS) Works with a wide range of Bluetooth devices
Keyboard	Spill-resistant keyboard is 93% of full size, 101/102-key compatible with isolated inverted-T cursor control keys, both left and right control and alt keys, 12 function keys, and hotkey combinations for audio volume, power conservation, brightness, and other features. US and international key layouts are available.	
Pointing device	Touchpad with capacitive multi-touch gesture support and two soft-touch buttons	
Expansion Card Slots	**Secure Digital/MMC slot**	Supports SD (Secure Digital), MMC (MultiMedia Card)

Standard Features

Storage	**Internal Storage Device**	250/320* GB 5400 rpm SATA (7 mm and 9.5 mm drives)
	HP ProtectSmart / Accelerometer	The hard drive is mounted to the notebook frame, reducing the transmission of shock away from the hard drive. Uses three-axis digital motion detection with intelligent sensitivity to help protect the hard drive during normal use from shock and vibration. The digital accelerometer temporarily halts all data transfer and parks the hard drive when abrupt motion is detected.
	NOTE: Up to 15 GB is reserved for the system recovery software.	
Removable Storage	**External Optical Drive**	Optional HP External Mobile USB DVD/RW
Interfaces	**External Monitor**	One – VGA
	Stereo headphone/line out	One
	Stereo microphone in	One
	Power Connector	One
	RJ-45/Ethernet	One
	USB 2.0	Three
Audio/Visual	HD audio (HP Premier Sound) Integrated stereo speakers Integrated microphone Stereo headphone/line out Stereo microphone/line in Integrated VGA webcam	
Software	**Preinstalled software with Windows operating system**	HP Support Assistant (Windows 7 only) HP Quick Launch HP Connection Manager Microsoft Office 2010 Preloaded (purchase of a Product Key required to activate a full Office 2010 suite)* Norton Internet Security 2011** Adobe Flash Player HP Download Store Arcsoft Camera SuiteEvernote PDF Complete Special Edition***
	Preloaded software with Windows operating system	Skype

Standard Features

* Microsoft Office 2010 Preloaded includes reduced functionality versions of Word and Excel. Purchase of Product Key required to activate full Office 2010 suite available at participating resellers/retailers and http://www.office.com.
** Norton Internet Security 2011 includes 60 days of complimentary live updates; subscription required for live updates thereafter. Internet access required to receive updates.
*** PDF Complete Special Edition 60 day trial; purchase license afterwards for full functionality.

Security	**Standard Features**	TPM 1.2 Embedded Security Chip* Setup Password Power-On Password Kensington Lock Slot Support for Computrace** in the BIOS

* TPM functionality can be accessed/attained using TPM Management Microsoft Council.
** The Computrace agent is shipped turned off, and must be activated by customers when they purchase a subscription with terms ranging from one to five years.
For more information on HP security solutions refer to: http://www.hp.com/go/security.

Power Supply	External 40-watt AC adapter, 3.3-foot (1 meter) power cord included. Total length including external AC adapter is 8.55 feet (2.59 meter).

Battery	**Primary Battery**	6-cell (55 Whr) high capacity Li-Ion 3-cell (28 WHr) high capacity Li-Ion

Battery Life	**6-cell Primary Battery**	Up to 10 hours and 37 minutes
	3-cell Primary Battery	Up to 5 hours and 10 minutes

NOTE: Battery life will vary depending on the product model, configuration, loaded applications, features, use, wireless functionality and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See MobileMark07 battery benchmark www.bapco.com/products/mobilemark2007 for additional details.

System Standby Time	Up to 1 week

Power Conservation	Standby ACPI compliance

Service and Support	HP Services includes a one-year standard parts and labor warranty, pick-up or carry-in, and toll-free 7 x 24 hardware technical phone support (depending on model). On-site service and warranty upgrades are also available (depending on model). HP Care Pack Services extend service contracts beyond the standard warranties. To choose the right level of service for your HP product, use the HP Care Pack Services Lookup Tool at: http://www.hp.com/go/lookuptool. Additional HP Care Pack Services information by product is available at: http://www.hp.com/hps/carepack. **NOTE:** Certain restrictions and exclusions apply. Consult the HP Customer Support Center for details. http://h20000.www2.hp.com/bizsupport/TechSupport/ProductRoot.jsp.

Options

Storage	HP Mobile USB DVDRW	BU516AA
Multimedia	HP Pocket Whiteboard	A0X37AA, QL796AA
Power	HP Mini 40W AC Adapter	WE449AA
	HP 20-Notebook Charging Cart	QL488AA##ABA
	HP 20-Notebook Managed Charging Cart	QL489AA##ABA
	HP 30-Notebook Managed Charging Cart	QL490AA##ABA
Security	HP Combination Lock	AY475AA
	HP Keyed Cable Lock	BV411AA
Input/Output Devices	HP USB Optical Travel Mouse	RH304AA

Technical Specifications

System Unit	**Dimensions** (HxWxD)	0.89 in at front (1.26 in at rear) x 10.55 in x 7.52 in 22.8 mm at front (32 mm at rear) x 268 mm x 191 mm	
	Weight	Starting at 2.78 lb (1.26 kg)	
	NOTE: Height varies depending upon where on the notebook the measurement is made. Weight varies by configuration and components.		
	Standalone Power Requirements	Normal Operating Voltage	18.5 V
		Average Operating Power	20.99 W
		Max Operating Power	< 40 W
	Temperature	Operating	32° to 95° F (0° to 35° C)
		Non-operating	–4° to 140° F (–20° to 60° C)
	Relative Humidity	Operating	10% to 90%, noncondensing
		Non-operating	5% to 95%, 101.6° F (38.7° C) maximum wet bulb temperature
	Shock	Operating	125 G, 2 ms, half-sine
		Non-operating	200 G, 2 ms, half-sine
	Random Vibration	Operating	0.75 grms
		Non-operating	1.50 grms
	Altitude (unpressurized)	Operating	–50 to 10,000 ft (–15.24 to 3,048 m)
		Non-operating	–50 to 40,000 ft (–15.24 to 12,192 m)
	Industry Standard Certifications	UL	Yes
		FCC Compliance	Yes
		ENERGY STAR®	Yes*
		EPEAT	Silver**
		ICES	Yes
		Australia / NZ C-Tick Compliance	Yes
		CCC	Yes
		Japan VCCI Compliance	Yes
		MIC / KCC	Yes
		BSMI	Yes
		CE Marking Compliance	Yes
		BNCI or BELUS	Yes
		CIT	Yes
		GOST	Yes
		Saudi Arabian Compliance (ICCP)	Yes
		SABS	Yes

* Configurations of the HP Mini 1104 that are ENERGY STAR qualified are identified as HP Mini 1104 ENERGY STAR on HP websites and on www.energystar.gov.

** EPEAT registration varies by country. See www.epeat.net for registration status by country. EPEAT status listed above applies to U.S.

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